

What is claimed is:

1. A data processor for temporarily storing a plurality of types of data transmitted, and for outputting stored data of each type as a single unit, said data processor comprising:

5 first storing means for storing the plurality of types of data in a predetermined order;

second storing means for storing information about the type of the data and information about continuity of data of a same type in parallel with the data stored in said first storing means;

10 control means for reading a plurality of data of the same type continuously from said first storing means in response to the information stored in said second storing means; and

output means for outputting the data read by said control means as a single unit.

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2. The data processor according to claim 1, wherein said control means reads the information about the type of the data and the information about continuity of the data of the same type from said second storing means in an order stored, and subsequently reads the data corresponding to the information about the type of the data and the information about continuity of the data of the same type from said first storing means in response to the information read from said second storing means.

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25 3. The data processor according to claim 1, wherein said first storing means stores, when reset information indicating a data type to be discarded is detected from the transmitted data, the reset information successively;

30 said second storing means stores a reset flag with predetermined value in correspondence with the reset

information; and

said control means starts, when the reset information is detected from the transmitted data, to discard the data of the type specified by the reset information, reads from said second storing means the information about the type of the data, the information about continuity of the data of the same type and the reset flag in the order stored, reads the data and the reset information from said first storing means in the order stored, reads, when reading the reset flag with the predetermined value from said second storing means, the reset information from said first storing means in synchronism with the reading of the reset flag from said second storing means, and completes discarding the data of the type specified by the reset information read from said first storing means.

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4. The data processor according to claim 1, wherein

said second storing means successively stores, when reset information indicating a data type to be discarded is detected from the transmitted data, the data type to be discarded and a start flag of a predetermined value in an order; and

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said control means starts, when the reset information is detected from the transmitted data, to discard data of the type specified by the reset information, reads the information about the type of the data, the information about continuity of the data of the same type and the start flag from said second storing means in the order stored, and completes, when the start flag of the predetermined value is read from said second storing means, discarding the data indicated by the information about the type of the data read in conjunction with the start flag.

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5. The data processor according to claim 1, wherein

said first storing means stores, when reset information is detected in the transmitted data, a portion of the reset information in a predetermined order as a one word;

5 said second storing means stores a reset flag ID indicating a position of the portion of the reset information in the reset information; and

10 said control means starts, when the reset information is detected from the transmitted data, to discard the data of the type specified by the reset information, reads from said second storing means the information about the type of the data, the information about continuity of the data of the same type, the reset flag and the reset flag ID in the order stored, reads the data and the reset information from said first storing means in
15 the order stored, reads, when reading the reset flag with the predetermined value from said second storing means, the portion of the reset information from said first storing means in synchronism with the reading of the reset flag from said second storing means, and completes discarding the data of the type
20 specified by the portion of the reset information read from said first storing means and the reset flag ID.

6. The data processor according to claim 1, wherein

25 said second storing means stores, when same type data continue in said first storing means, a number of consecutive data in parallel with the data as information about continuity; and

30 said control means reads the number of data from said second storing means, and reads the data by the number of data continuously from said first storing means.

7. The data processor according to claim 1, wherein

said second storing means stores, when same type data continue in said first storing means, stop information of a predetermined value in parallel with final data of the
5 consecutive data as information about continuity; and

said control means reads data and stop information corresponding to the data from said first storing means and said second storing means in synchronism, respectively, and reads the
10 data from said first storing means continuously until the stop information of the predetermined value is read from said second storing means.

8. The data processor according to claim 1, wherein said first
15 storing means and second storing means each consist of a FIFO.